

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
690022.547APPLICATION NO.
09/589,870**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS
Stephen C. Goshorn et al.FILING DATE
June 5, 2000GROUP ART UNIT
1643NOV 09 2000
TECH CENTER 1600/2900**U.S. PATENT DOCUMENTS**

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
SR	AI	WO 86/02077	04/10/86	WIPO				
SR	AJ	WO 87/05026	08/27/87	WIPO				
SR	AK	WO 93/24631	12/09/93	WIPO				
SR	AL	WO 95/15770	06/15/95	WIPO				
SR	AM	WO 97/18314	05/22/97	WIPO				
SR	AN	WO 97/19957	06/05/97	WIPO				
	AO							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SR	AP	Plückthun and Pack, "New Protein Engineering Approaches to Multivalent and Bispecific Antibody Fragments," <i>Immunotechnology</i> 3:83-105, 1997.
	AQ	
	AR	

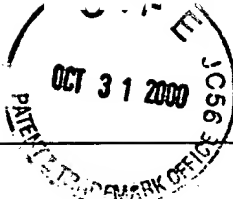
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J. Rauling

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Sheet 1 of 8

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SR	AA	4,839,293	06/13/89	Cantor et al.	435	320	
SR	AB	4,867,973	09/19/89	Goers et al.	424	85.91	
SR	AC	4,975,369	12/04/90	Beavers et al.	435	69.1	
SR	AD	5,169,939	12/08/92	Geftter et al.	530	387.3	
SR	AE	5,272,254	12/21/93	Meade et al.	530	350	
SR	AF	5,328,985	07/12/94	Sano et al.	530	350	
SR	AG	5,334,532	08/02/94	Tackney et al.	435	252.33	
SR	AH	5,395,609	03/07/95	Stuttle	424	1.69	
SR	AI	5,530,101	06/25/96	Queen et al.	530	387.3	
SR	AJ	5,630,996	05/20/97	Reno et al.	424	1.49	

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SR	AL	EP 496 074 B1	11/20/96	EPO				
SR	AM	EP 682 040 A1	11/15/95	EPO				
SR	AN	WO 95/25167	09/21/95	WIPO				
SR	AO	WO 98/50432	11/12/98	WIPO				
	AP							

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SR	AR	Alfthan et al., "Properties of a Single-Chain Antibody Containing Different Linker Peptides," <i>Protein Eng.</i> 8(7):725-731, 1995.
SR	AS	Argaraña et al., "Molecular Cloning and Nucleotide Sequence of the Streptavidin Gene," <i>Nucl. Acids Res.</i> 14(4):1871-1882, 1986.
SR	AT	Auditore Hargreaves, "Pretarget® Radioimmunochemistry: Preclinical Results with Single-Chain Antibody/Streptavidin Fusion Proteins," Abstract and Slide Presentation, Recombinant Antibodies, June 5-6, 2000, Baltimore, MD.

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SR	AA	5,696,237	12/09/97	FitzGerald et al.	530	387.3	
SR	AB	5,837,816	11/17/98	Ciardelli et al.	530	350	
SR	AC	5,863,745	01/26/99	Fitzgerald et al.	435	7.21	
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SR	AR	Better, "T-Cell-Targeted Immunofusion Proteins From <i>E. Coli</i> ," <i>Annals N. Y. Acad. Sci.</i> 782:544-54, 1996.
SR	AS	Bird et al., "Single-Chain Antigen-Binding Proteins," <i>Science</i> 242:423-426, 1988.
SR	AT	Boleti et al., "Construction, Expression and Characterization of a Single-Chain Anti-Tumour Antibody (scFv)-IL-2 Fusion Protein," <i>Annals Oncol.</i> 6:945-947, 1995.

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SR		Buchegger et al., "Radiolabeled Chimeric Anti-CEA Monoclonal Antibody Compared with the Original Mouse Monoclonal Antibody for Surgically Treated Colorectal Carcinoma," <i>The Journal of Nuclear Medicine</i> 36(3):420-429, 1995.
SR		Darveau et al., "Expression of Antibody Fragments in <i>Escherichia coli</i> ," <i>J. Clin. Immunoassay</i> 15(1):25-29, 1992.
SR		Desplancq et al., "Multimerization Behaviour of Single Chain Fv Variants for the Tumour-Binding Antibody B72.3," <i>Protein Eng.</i> 7(8):1027-1033, 1994.
SR		Dübel et al., "Bifunctional and Multimeric Complexes of Streptavidin Fused to Single-Chain Antibodies (scFv)," <i>J. Immunol. Meth.</i> 178:201-209, 1995.
SR		Fell et al., "Genetic Construction and Characterization of a Fusion Protein Consisting of a Chimeric F(ab') with Specificity for Carcinomas and Human IL-2," <i>The Journal of Immunology</i> 146(7):2446-2452, 1991.
SR		Filpula et al., "Engineering of Immunoglobulin Fc and Single-Chain Fv Proteins in <i>Escherichia coli</i> ," Antibody Expression and Engineering, ACS Symposium Series No. 604; Chap. 6, pp. 71-82, American Chemical Society: Washington, D.C., 1995.
SR		Gallizia et al., "Production of a Soluble and Functional Recombinant Streptavidin in <i>Escherichia coli</i> ," <i>Protein Expr. Purif.</i> 14:192-196, 1998.
SR		Goodwin and Hnatowich, "Tumor Imaging with Indium-Labeled Biotin. Letter to the Editor and Reply," <i>The Journal of Nuclear Medicine</i> 32(4):750-751, 1991.
SR		Goodwin et al., "Pharmacokinetics of Biotin-Chelate Conjugates for Pretargeted Avidin-Biotin Immunoscinigraphy," <i>The Journal of Nuclear Medicine</i> 33(Suppl. 5):p. 880, Abstract No. 232, 1992.
SR	AR	Goshorn et al., "Genetic Construction, Expression, and Characterization of a Single-Chain Anti-Carcinoma Antibody Fused to β -Lactamase," <i>Cancer Res.</i> 53:2123-2127, 1993.
SR	AS	Hand et al., "Comparative Biological Properties of a Recombinant Chimeric Anti-Carcinoma mAb and a Recombinant Aglycosylated Variant," <i>Cancer Immunology Immunotherapy</i> 35:165-174, 1992.
SR	AT	Huston et al., "Antigen Recognition and Targeted Delivery by the Single-Chain Fv," <i>Cell Biophys.</i> 22:189-224, 1993.

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SR		Huston et al., "Protein Engineering of Antibody Binding Sites: Recovery of Specific Activity in an Anti-Digoxin Single-Chain Fv Analogue Produced in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci.</i> 85:5879-5883, 1988.
SR		Huston et al., "Protein Engineering of Single-Chain Fv Analogs and Fusion Proteins," <i>Meth. Enzymol.</i> 203:46-89, 1991.
SR		Kalofonos et al., "Imaging of Tumor in Patients with Indium-111-Labeled Biotin and Streptavidin-Conjugated Antibodies: Preliminary Communication," <i>J. Nucl. Med.</i> 31:1791-1796, 1990.
SR		Karp et al., "Identification of Biotinylated Molecules Using a Baculovirus-Expressed Luciferase-Streptavidin Fusion Protein," <i>Biotechniques</i> 20:452-459, 1996.
SR		Kerschbaumer et al., "Single-Chain Fv Fusion Proteins Suitable as Coating and Detecting Reagents in a Double Antibody Sandwich Enzyme-Linked Immunosorbent Assay," <i>Analyt. Biochem.</i> 249:219-227, 1997.
SR		Kipriyanov et al., "Single-Chain Antibody Streptavidin Fusions: Tetrameric Bifunctional scFv- Complexes with Biotin Activity and Enhanced Affinity to Antigen," <i>Hum. Antibody Hybridomas</i> 6(3):93-101, 1995.
SR		Kipriyanov, et al., "Affinity Enhancement of a Recombinant Antibody: Formation of Complexes with Multiple Valency by a Single-Chain Fv Fragment—Core Streptavidin Fusion," <i>Protein Eng.</i> 9(2):203-211, 1996.
SR		Kobayashi et al., "Improved Clearance of Radiolabeled Biotinylated Monoclonal Antibody Following the Infusion of Avidin as a 'Chase' Without Decreased Accumulation in the Target Tumor," <i>J. Nucl. Med.</i> 35:1677-1684, 1994.
SR		Koch and Macke, " ^{99m} Tc Labeled biotin conjugates in a Tumor 'Pretargeting' Approach with Monoclonal Antibodies," <i>Angew. Chem. Intl. Ed. Engl.</i> 31(11): 1507-1509, 1992.
SR	AR	Koo et al., "Construction and Expression of a Bifunctional Single-Chain Antibody Against <i>Bacillus cereus</i> Spores," <i>Appl. Environ. Microbiol.</i> 64(7):2490-2496, 1998.
SR	AS	Koo et al., "Development of a Streptavidin-Conjugated Single-Chain Antibody That Binds <i>Bacillus cereus</i> Spores," <i>Appl. Environ. Microbiol.</i> 64(7):2497-2502, 1998.
SR	AT	Kortt et al., "Single-Chain Fv fragments of Anti-Neuraminidase Antibody NC10 Containing Five- and Ten-Residue Linkers Form Dimers and with Zero-Residue Linker a Trimer," <i>Protein Eng.</i> 10(4):423-433, 1997.

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J. Rawls

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SR		Le et al., "A Streptavidin-Cellulose-Binding Domain Fusion Protein that Binds Biotinylated Proteins to Cellulose," <i>Enzyme Microb. Technol.</i> 16:496-500, 1994.
SR		Li et al., "Genetically Engineered Brain Drug Delivery Vectors: Cloning, Expression and <i>in vivo</i> Application of an Anti-transferrin Receptor Single Chain Antibody—Streptavidin Fusion Gene and Protein," <i>Protein Eng.</i> 12(9):787-796, 1999.
SR		Nin et al., "A Single Chain Antibody-Streptavidin Fusion Protein for Pretargeted Lymphoma Therapy," Abstract and Poster Presentation, Antibody Engineering, 10th Anniversary Meeting, December 6-9, 1999, La Jolla, CA.
SR		McCloskey et al., "Human Constant Regions Influence the Antibody-Binding Characteristics of Mouse-Human Chimeric IgG Subclass," <i>Immunology</i> 88:169-173, 1996.
SR		Morrison, "Genetically Engineered (Chimeric) Antibodies," <i>Hospital Practice</i> :65-80, October 15, 1989.
SR		Ohno and Meruelo, "Multi-Drug Delivery System Using Streptavidin-Transforming Growth Factor- α Chimeric Protein," <i>DNA Cell Bio.</i> , 15(5):401-406, 1996.
SR		Ohno et al., "Cell-Specific, Multidrug Delivery System Using Streptavidin-Protein A Fusion Protein," <i>Biochem. Molec. Med.</i> 58:227-233, 1996.
SR		Paganelli et al., "Intraperitoneal Radio-Localization of Tumors Pre-Targeted by Biotinylated Monoclonal Antibodies," <i>Int. J. Cancer</i> 45: 1184-1189, 1990.
SR		Paganelli et al., "Monoclonal Antibody Pretargeting Techniques for Tumour Localization: The Avidin-Biotin," <i>Nuclear Medicine Communications</i> 12:211-234, 1991.
SR	AR	Paganelli et al., "Pilot Therapy Trial of CEA Positive Tumours Using a Three-Step Pretargeting Approach," <i>Tumor Targeting</i> 3:96-104, 1998.
SR	AS	Paganelli et al., "Two-Step Tumour Targeting in Ovarian Cancer Patients Using Biotinylated Monoclonal Antibodies and Radioactive Streptavidin," <i>European Journal of Nuclear Medicine</i> 19:322-329, 1992.
SR	AT	Pearce et al., "Linear Gene Fusions of Antibody Fragments with Streptavidin can be Linked to Biotin Labelled Secondary Molecules to Form Bispecific Reagents," <i>Biochem. Molec. Biol. Intl.</i> 42(6):1179-1188, 1997.

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SR		Plückthun, "Antibodies from <i>Escherichia coli</i> ," <i>Nature</i> 347:497-498, 1990.
SR		Plückthun, "Antibody Engineering: Advances from the Use of <i>Escherichia coli</i> Expression Systems," <i>Biotechnol.</i> 9:545-551, 1991.
SR		Press et al., "Treatment of Refractory Non-Hodgkin's Lymphoma With Radiolabeled MB-1 (Anti-CD37) Antibody," <i>Journal of Clinical Oncology</i> 7(8):1027-1038, 1989.
SR		Presta et al., "Humanization of an Antibody Directed Against IgE," <i>The Journal of Immunology</i> 151(5):2623-2632, 1993.
SR		Raag and Whitlow, "Single-chain Fvs," <i>FASEB Journal</i> 9:73-80, 1995.
SR		✓ Sano and Cantor "Expression Vectors for Streptavidin-Containing Chimeric Proteins," <i>Biochem. Biophys. Res. Commun.</i> 176(2):571-577, 1991.
SR		Sano and Cantor, "A Streptavidin-Protein A Chimera that Allows One-Step Production of a Variety of Specific Antibody Conjugates," <i>Biotechnol.</i> 9:1378-1381, 1991.
SR		• Sano and Cantor, "Expression of a Cloned Streptavidin Gene in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci.</i> 87:142-146, 1990.
SR		Sano et al., "A Streptavidin Mutant Containing a Cysteine Stretch That Facilitates Production of a Variety of Specific Streptavidin Conjugates," <i>Bio/Technology</i> 11:201-206, 1993.
SR	AR	✓ Sano et al., "A Streptavidin-Metallothionein Chimera that Allows Specific Labeling of Biological Materials with many Different Heavy Metal Ions," <i>Proc. Natl. Acad. Sci.</i> 89:1534-1538, 1992.
SR	AS	✓ Sano et al., "Genetic Engineering of Streptavidin, a Versatile Affinity Tag," <i>J. Chromatogr. B</i> 715:85-91, 1998.
SR	AT	Sano et al., "Molecular Engineering of Streptavidin," <i>Ann. N.Y. Acad. Sci.</i> 799:383-390, 1996.

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SR			Sawyer and Blattner, "Rapid Detection of Antigen Binding by Antibody Fragments Expressed in the Periplasm of <i>Escherichia coli</i> ," <i>Protein Eng.</i> 4(8):947-953, 1991.
SR			Sawyer et al., "The Effects of Induction Conditions on Production of a Soluble Anti-Tumor sFv in <i>Escherichia coli</i> ," <i>Protein Eng.</i> 7(11):1401-1406, 1994.
SR			Shan et al., "Characterization of scFv-Ig Constructs Generated from the Anti-CD20 mAb 1F5 Using Linker Peptides of Varying Lengths," <i>J. Immunol.</i> 162(11):6589-6595, 1999.
SR			Shin et al., "Functional and Pharmacokinetic Properties of Antibody-Avidin Fusion Proteins," <i>J. Immunol.</i> 158(10):4797-4804, 1997.
SR			Skerra et al., "The Functional Expression of Antibody Fv Fragments in <i>Escherichia coli</i> : Improved Vectors and a Generally Applicable Purification Technique," <i>Biotechnol.</i> 9(3):273-8, 1991.
SR			Spooner et al., "Expression of Immunoglobulin Heavy Chain-Ricin a Chain Fusions in Mammalian Cells," <i>Molecular Immunology</i> 31(2):117-125, 1994.
SR			Spooner et al., "Genetically Engineered Antibodies for Diagnostic Pathology," <i>Hum. Pathol</i> 25:606-614, 1994.
SR			Stickney et al., "Bifunctional Antibody: A Binary Radiopharmaceutical Delivery System for Imaging Colorectal Carcinoma," <i>Cancer Research</i> 51:6650-6655, 1991.
SR			Thompson and Weber, "Construction and Expression of a Synthetic Streptavidin-Encoding Gene in <i>Escherichia coli</i> ," <i>Gene</i> 136:243-246, 1993.
SR	AR		Trang et al., "Pharmacokinetics of a Mouse/Human Chimeric Monoclonal Antibody (C-17-1A) in Metastatic Adenocarcinoma Patients," <i>Pharmaceutical Research</i> 7(6):587-592, 1990.
SR	AS		Turner et al., "Importance of the Linker in Expression of Single-Chain Fv Antibody Fragments: Optimisation of Peptide Sequence Using Phage Display Technology," <i>J. Immunol. Meth.</i> 205:43-54, 1997.
SR	AT		Walsh et al., "An <i>Escherichia coli</i> Plasmid Vector System for Production of Streptavidin Fusion Proteins: Expression and Bioselective Adsorption of Streptavidin- β -Galactosidase," <i>Biotechnol. Bioeng.</i> 44:1348-1354, 1994.

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